**Current Firmware Revision: 1.03**

The following notes provide the revision history and a list of known firmware issues in the current release. For more information please call your Extron Application Engineer.

<b>Updated:</b>	October 18, 2005
<b>Extron Products Affected:</b>	VTG 400 & VTG 400D
<b>Current Engineering Revision:</b>	E15970

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**TECH NOTES**

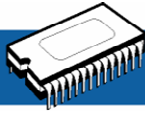
**Firmware upload** – Make sure the VTG is plugged in and turned on before attempting to upload the firmware. During the firmware upload, the unit will not respond to front panel operation. The upload process will take approximately two minutes, at the end of which, the VTG will be reset and turned off. Removal of power during the firmware upload process may result in improper upload or damage to the unit.

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**KNOWN ISSUES**

The following is a list of known firmware issues found in Firmware Version **1.03**.

**Missing pixels in circle pattern for PAL and some high resolution workstation output rates** – Slight pixel dropout can be noticed in the circle pattern for certain high resolution workstation rates and PAL video output rates. The absence of this information does not affect geometry of the circle itself.



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## FIRMWARE RELEASE HISTORY

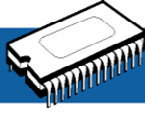
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**Released Version: 1.03****Affects: Engineering Revision:** prior to E15970**Firmware Revision:** 1.00 - 1.02**Date(s):** Units shipped prior to October 18, 2005

The following is a list of changes and fixes in this release.

- **Corrected reset states for Audio Frequency Sweep Format and Sine Burst Intervals and Direction** – These settings were not reverting back to factory default upon unit reset, resulting in an invalid output tone. Proper default settings include: Audio Frequency Sweep Format to Log, the Sine Burst Interval to 00001 and the Sine Burst Direction to Lo-Hi. This issue has been resolved.
- **Corrected preset updating of Audio Frequency Sweep Format and Sine Burst Intervals and Direction settings** – Unit settings were not properly instituted upon recalling of related presets, resulting in an invalid output tone. This issue has been resolved.
- **Removed vertical lines from the ramp and grayscale on HD-SDI output** – The HD-SDI output displayed minor video artifacts. This issue has been resolved.



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## FIRMWARE RELEASE HISTORY

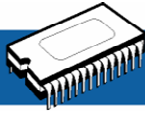
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**Released Version: 1.02****Affects: Engineering Revision:** prior to E15721**Firmware Revision:** 1.00 - 1.01**Date(s):** Units shipped prior to July 26, 2005

The following is a list of changes and fixes in this release.

- **Adjusted the HD-SDI pixel clock frequency for 59.94/29.97 Hz HDTV refresh rates** – Periodic glitches were previously noticed when using the VTG 400D with specific HD-SDI equipment. A minor adjustment to the pixel clock frequency resolved this issue.



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## FIRMWARE RELEASE HISTORY

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**Released Version: 1.01****Affects: Engineering Revision:** prior to E15501**Firmware Revision:** 1.00**Date(s):** Units shipped prior to April 26, 2005

The following is a list of changes and fixes in this release.

- **Corrected the HD-SDI output to follow SMPTE standards** – Errors were noticed in the EAV and SAV area of the HD-SDI output. These were corrected and verified against SMPTE 296 (720p) and SMPTE 274 (1080i) standards to ensure conformability.
- **Corrected the SIS response for recalling presets and toggling the raster border on or off** – The response for recalling presets and turning the raster border on or off had spaces between the three letter acronym and the numeric value. These spaces have been removed to match the format described in the VTG 400/400D User's Manual.
- **Corrected the SIS response for the '0Q' command** – The response for the '0Q' command did not include asterisk marks that indicate current firmware versions. These asterisks have been added into the response for proper feedback of firmware versions.
- **Removed noise on circle and safe area test patterns for output rate "SUN 1600x1280 89.30kHz/67Hz"** – A slight amount of noise was detected on the circle and safe area test patterns when displayed at the indicated Sun rate. This issue has been resolved.
- **Removed flashing white line noticed when switching between NTSC Flat Field and Window patterns** – A single flash of a small white line was present when switching between the Flat Field and Window test patterns. This flashing line has been removed and is no longer detectable within these test patterns.
- **Fixed the SIS List Rates command (L/I)** – Repeated List Rates commands issued to the VTG 400/400D would result in locking up of the device. A complete power cycle was required to restore functionality. Repeated commands will no longer lock up the unit.
- **Changed the PAL N subcarrier frequency from 4.43 MHz to 3.58 MHz** – Usage of the 3.58 MHz subcarrier frequency for the PAL N format was determined to be most common in South America with primary acceptance in the country of Argentina.